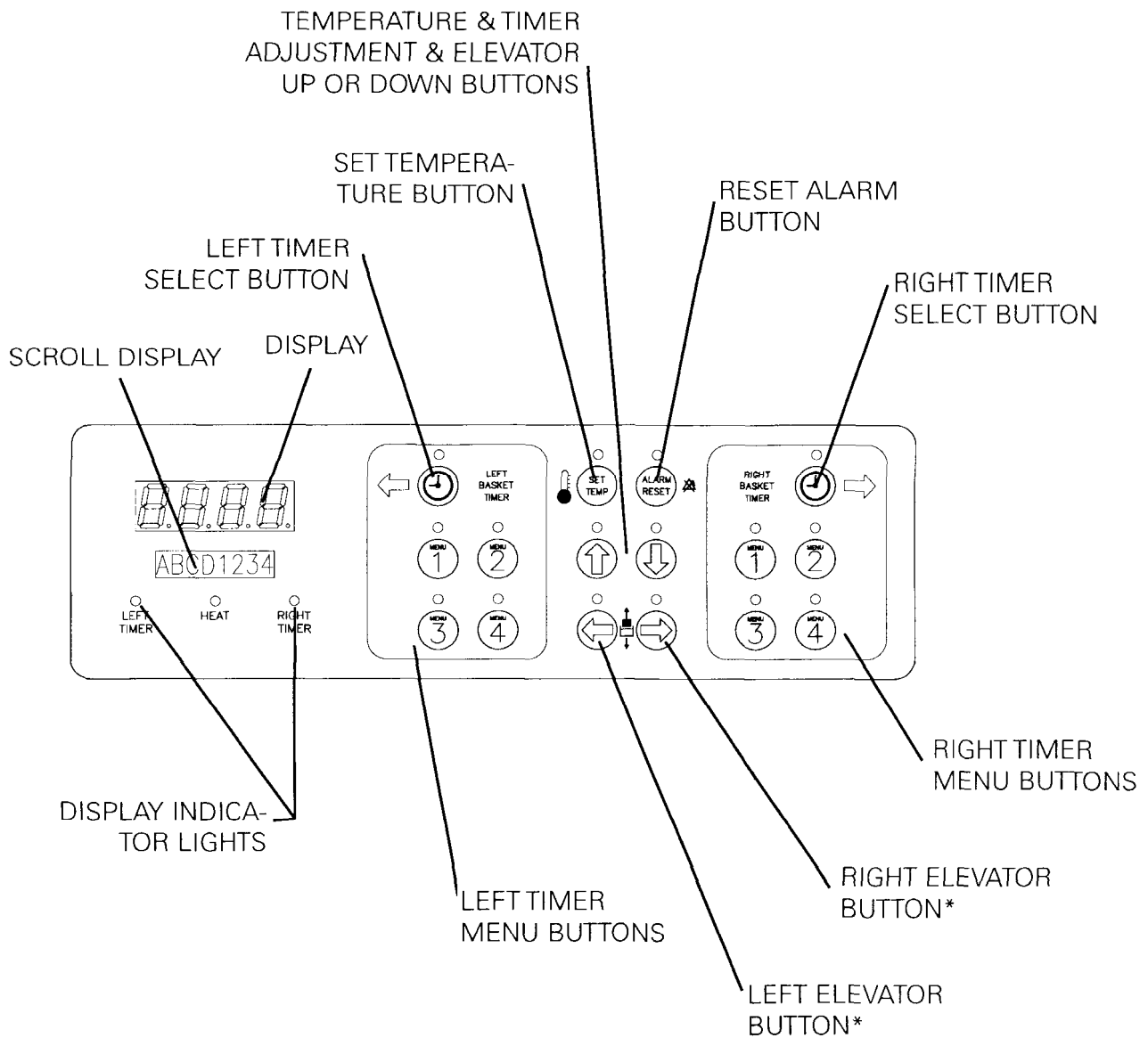


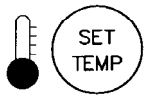
5-1. Cooking Controller

The following section describes the functions, features and programming of the Cooking Controller.

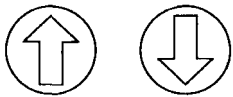


* -Basket Elevator Option Only

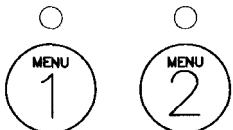
5-1.1. Button and Function



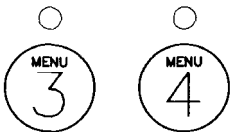
Used to set and display cooking temperature.



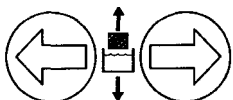
Used to increase or decrease cooking time and temperature.



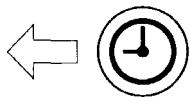
Used to set and recall cooking times.



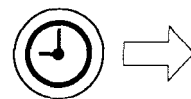
Used to silence alarm.



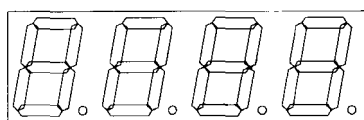
Used to select Left or Right Basket Elevator. (Basket Elevator Option Only)



Used to select the Left Basket Timer.



Used to select the Right Basket Timer.

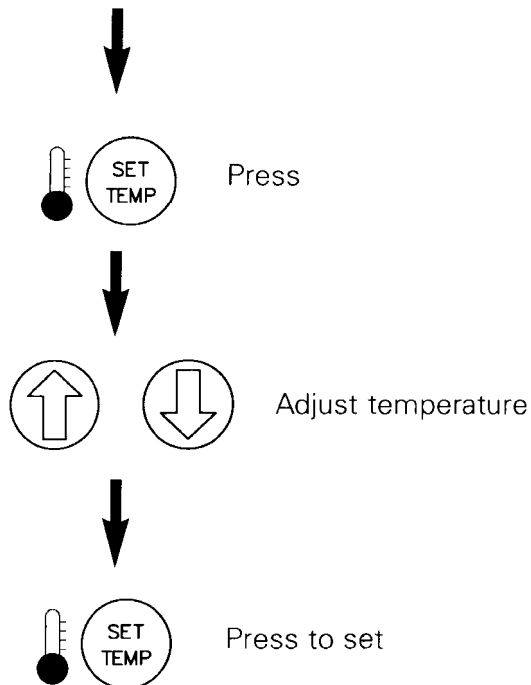
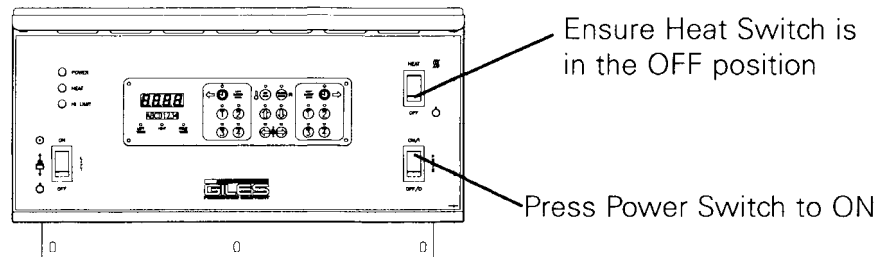


Used to display cooking times and temperature.



Scrolls various status information.

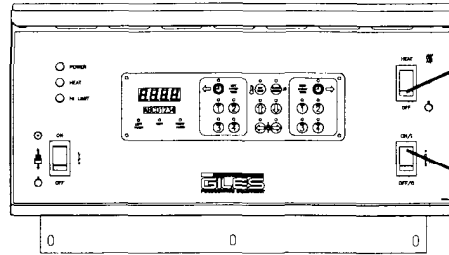
5-1.2. Programming the Cooking Temperature



Fryer Operation

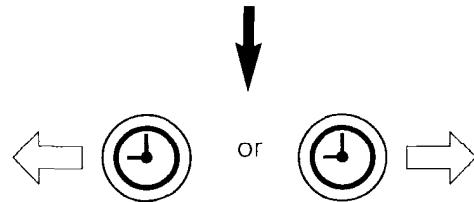
Model: EOF-20/FFLT/24 &
EOF-20/FFLT/24/24

5-1.3. Programming a Cooking Time

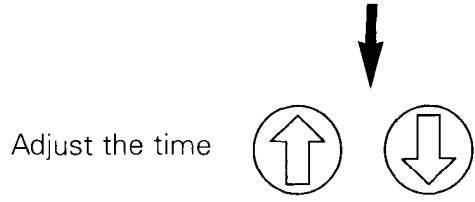
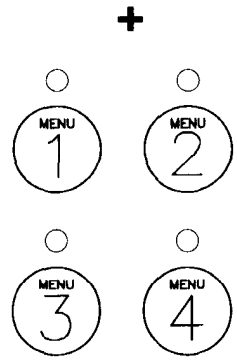


Ensure Heat Switch is in the OFF position

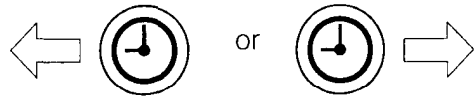
Press Power Switch to ON



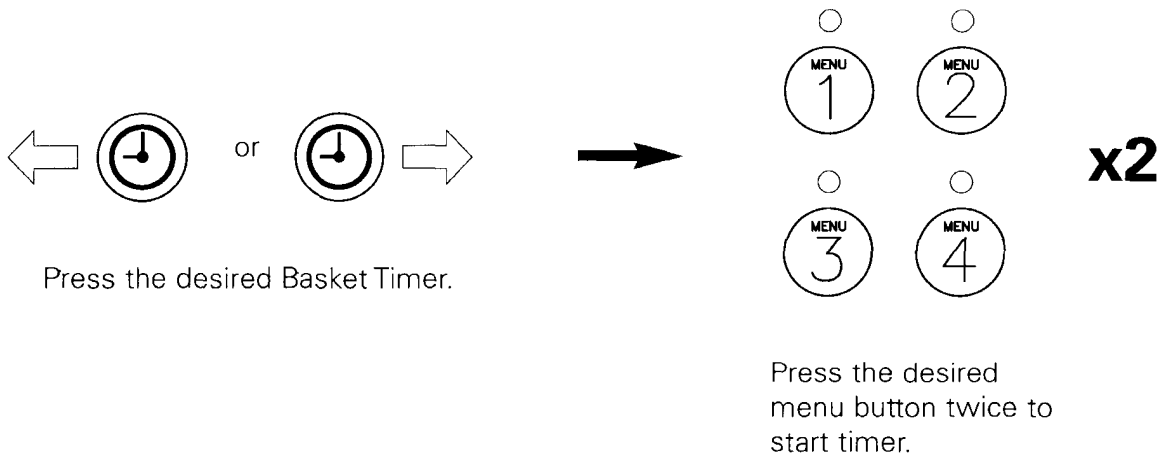
Press and hold both the desired Basket Timer and the desired Menu Key for 5 seconds



Press the desired Basket Timer again to set



5-1.4. Start a cooking time

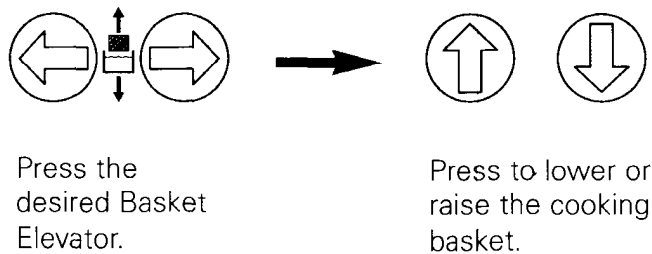


5-1.5. Cancel the currently running cooking time



(Basket Elevator Option Only) If cancelled and the Basket Elevator has been lowered, the Basket Elevator will raise when cancelled.

5-1.6. Manually lowering and raising the cooking basket (Basket Elevator Only)



1.2.7 Setup Menu

The Setup Menu can only be accessed when both sides are in the Rest Mode or if the control is in Preheat Mode.

To access the Setup Mode, enter the following key sequence: Alarm Reset, Left Basket Timer, Set Temperature, Set Temperature, Right Basket Timer.

To navigate the parameter list, use the increment and decrement keys.

To exit the Setup Menu, use the Left arrow.

To edit a parameter, use the Right arrow and the parameter will stop flashing.

The increment and decrement keys will change the parameter value, the Right arrow will save the parameter and the Left arrow will exit without saving.

Prompt	Description	Values	Visibility
~~~F Format	Temperature Display Format	Range: °C or °F Default: °F	Always visible.
4000 Guard Band	Guard Band	Range: 1 to 4000°F (1 to 2222°C) Default: 4000°F (2222°C)	Always visible.
~~~J Input 1	Input Type, Oil Temperature	Range: J or K Default: J	Always visible.
~~~J Input 2	Input Type, Heater Element	Range: J or K Default: J	Always visible.
~32F RangeLow	Temperature Range Low	Range: 32°F to 375°F Default: 32°F	Always visible.
375F RangeHi	Temperature Range High	Range: 32°F to 375°F Default: 375°F	Always visible.
~~3f hystersis	Hysteresis	Range: 1 to 99°F (1 to 55°C) Default: 3°F (2°C)	When type is set to On/Off
~~0F Offset	Calibration Offset	Range: -99°F to 99°F (-55°C to 55°C) Default: 0°F	Always visible.

NOTE: If the Hysteresis is not showing, go to the service mode and change the "PID" setting, see next page.

### 1.2.8 Service Mode

The Service Menu can only be accessed when both sides are in the Rest Mode or if the control is in Preheat Mode.

To access the Service Mode, enter the following key sequence: Alarm Reset, Set Temperature, Right Basket Timer, Left Basket Timer, Right Basket Timer.

To navigate the parameter list, use the increment and decrement keys.

To exit the Service Menu, use the Left arrow.

To edit a parameter, use the Right arrow and the parameter will stop flashing.

The increment and decrement keys will change the parameter value, the Right arrow will save the parameter.

The Left arrow will exit without saving

If the "TYPE" is set for "PID" then the Hysteresis will not be seen / reset for "On/Off

Prompt	Description	Values	Visibility
OnOff Type	Temperature Control Type	Range: OnOff or PID Default: On/Off	Always visible.
~25F PropBand	Proportional Band	Range: 1 to 999°F (0 to 555°C) Default: 25°F (14°C)	When type is set to PID
~000 Reset	Reset (derivative) Gain 1	Range: 0.00 to 9.99 repeats/minute Default: 0.00 repeats/minute	When type is set to PID
~000 Rate	Rate (derivative) Gain 1	Range: 0.00 to 9.99 minutes Default: 0.00 minutes	When type is set to PID
~~~5 Cycle Time	Cycle Time	Range: 1 to 60 seconds Default: 5 seconds	When type is set to PID
~Off Melt Cycle	Melt Cycle	Range: On or Off Default: Off	Always visible.
~Off Autotune	Autotune	Range: On or Off Default: Off	When type is set to PID.
10.00 Element Rate of Rise	Heater Element Rate of Rise (degrees/second)	Range: 0.01 to 99.99 degrees/second Default: 5.25 degrees/second We set to 5.75	Always visible
999F Element Maximum Temperature	Heater Element Maximum Temperature	Range: 1 to 999 degrees Default: 525 degrees Dual 500 degrees	Always visible
999F Oil - Element Temperature Differential	Oil / Element Temperature Differential	Range: 1 to 999 degrees Default: 999 degrees Dual 300 degrees	Always visible
~~On Display Stir	Display Stir at 60% of Menu Time	Range: On or Off Default: On	Always visible.

Can go as high as 6

This will need to be reset on all service controllers after installation.

Call Giles Technical Service at 800-288-1555 for information.

Error Code	Probable Cause	Solution
Er01- Oil Sensor Sensor	<ol style="list-style-type: none"> 1. Open Sensor or Damaged 2. The TC sensor lead wires are improperly terminated. 3. Measuring temperature outside the sensor range. 	<ol style="list-style-type: none"> 1. Turn off Power and remove the TC and replace with a jumper wire. Turn on the power. <ol style="list-style-type: none"> A. If the controller reads ambient temperature, the controller is OK and the sensor is bad. Replace the TC. B. If the controller reads a temperature other than ambient temp., the controller is bad. Replace the controller. C. Verify the jumper wire is removed. 2. Refer to sensor wiring instructions. For TC's, the red is negative polarity. 3. Verify the type of TC (Type J).
Er02 - Heater Element Sensor	<ol style="list-style-type: none"> 1. Open Sensor or Damaged 2. The TC sensor lead wires are improperly terminated. 3. Measuring temperature outside the sensor range. 	<ol style="list-style-type: none"> 1. Turn off Power and remove the TC and replace with a jumper wire. Turn on the power. <ol style="list-style-type: none"> A. If the controller reads ambient temperature, the controller is OK and the sensor is bad. Replace the TC. B. If the controller reads a temperature other than ambient temp., the controller is bad. Replace the controller. C. Verify the jumper wire is removed. 2. Refer to sensor wiring instructions. For TC's, the red is negative polarity. 3. Verify the type of TC (Type J).
Er03 - Drain Switch	<ol style="list-style-type: none"> 1. Drain switch if not wired properly 	<ol style="list-style-type: none"> 1. Verify the drain switch wiring
Er04 - Left Basket (Up)	<ol style="list-style-type: none"> 1. Drain switch is remaining open. 2. High voltage bus is damaged. 3. Motor is damaged. 	<ol style="list-style-type: none"> 1. Verify the drain switch is wired properly. 2. Replace the controller. 3. Replace motor.
Er05 - Left Basket (Down)	<ol style="list-style-type: none"> 1. Drain switch is remaining closed 2. High voltage bus is damaged. 3. Motor is damaged. 	<ol style="list-style-type: none"> 1. Verify the drain switch is wired properly. 2. Replace the controller. 3. Replace motor.
Er06 - Right Basket (Up)	<ol style="list-style-type: none"> 1. Drain switch is remaining closed 2. High voltage bus is damaged. 3. Motor is damaged. 	<ol style="list-style-type: none"> 1. Verify the drain switch is wired properly. 2. Replace the controller. 3. Replace motor.
Er07 - Right Basket (Down)	<ol style="list-style-type: none"> 1. Drain switch is remaining closed 2. High voltage bus is damaged. 3. Motor is damaged. 	<ol style="list-style-type: none"> 1. Verify the drain switch is wired properly. 2. Replace the controller. 3. Replace motor.
Er08 - Zone 1 loop error	<ol style="list-style-type: none"> 1. Faulty heater 2. Bad heater sensor 3. Faulty output switching device 4. Blown fuse to the heater 	<ol style="list-style-type: none"> 1. Check heater 2. Check heater sensor 3. Check output switching device 4. Check fuse to the heater
Er09 - Ambient sensor error	<ol style="list-style-type: none"> 1. Ambient temp. surrounding the controller is too high or low. 	<ol style="list-style-type: none"> 1. Adjust the system so that the ambient temp. is above 32F and below 160F.
Er10 - Cold Start	<ol style="list-style-type: none"> 1. Controller initializing 2. Controller malfunction 	<ol style="list-style-type: none"> 1. Wait for 30 seconds, if the message doesn't terminate, return the controller to the factory. 1. Wait for 30 seconds, if the message doesn't terminate, return the controller to the factory.